

Compal Confidential

Model Name : Bellemere_BE
Compal Project Name : B5W1E
File Name : LA-D121P

Compal Confidential

B5W1E Schematics Document

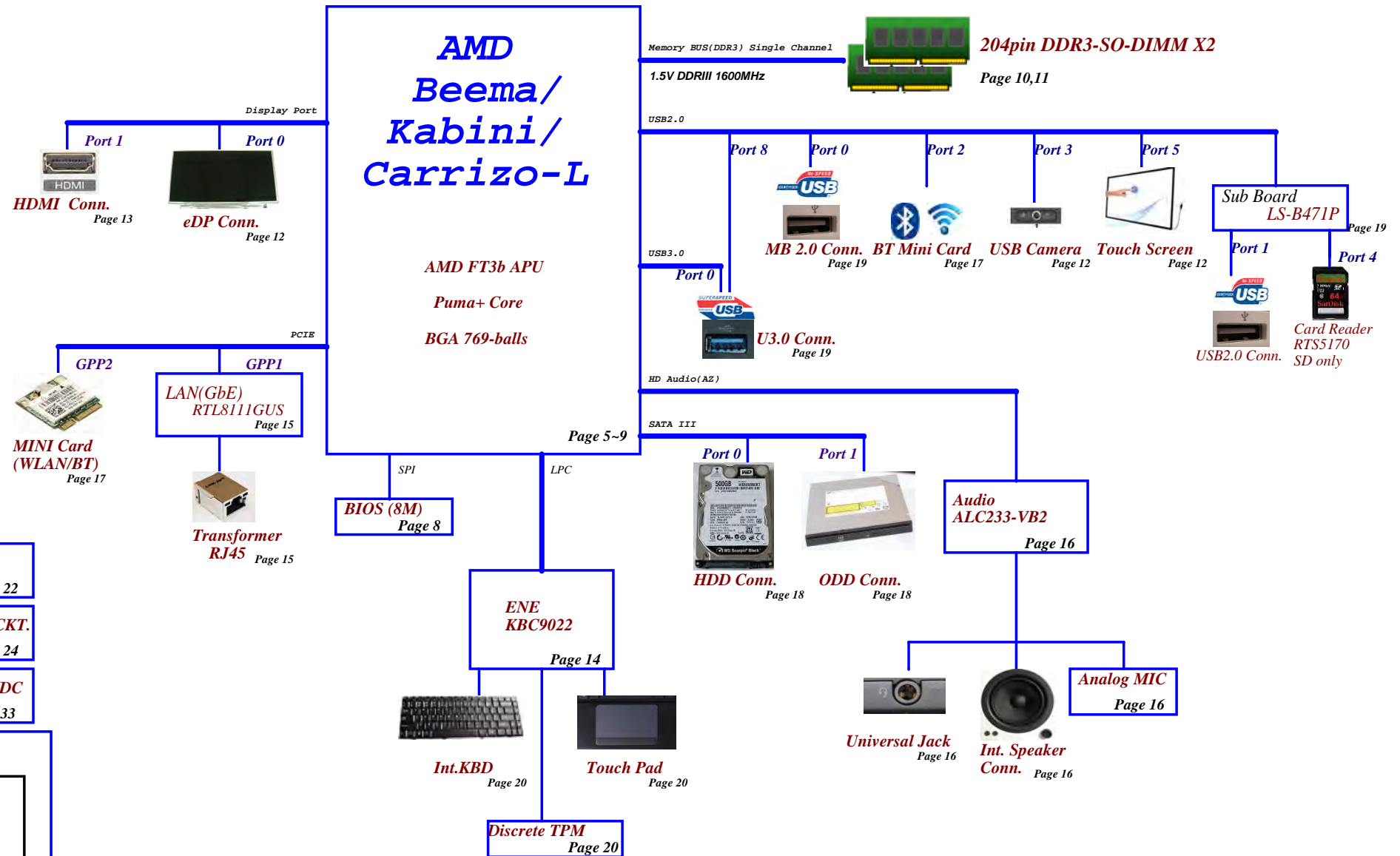
AMD "Beema" Platform
AMD 15W APU With Puma+ Core

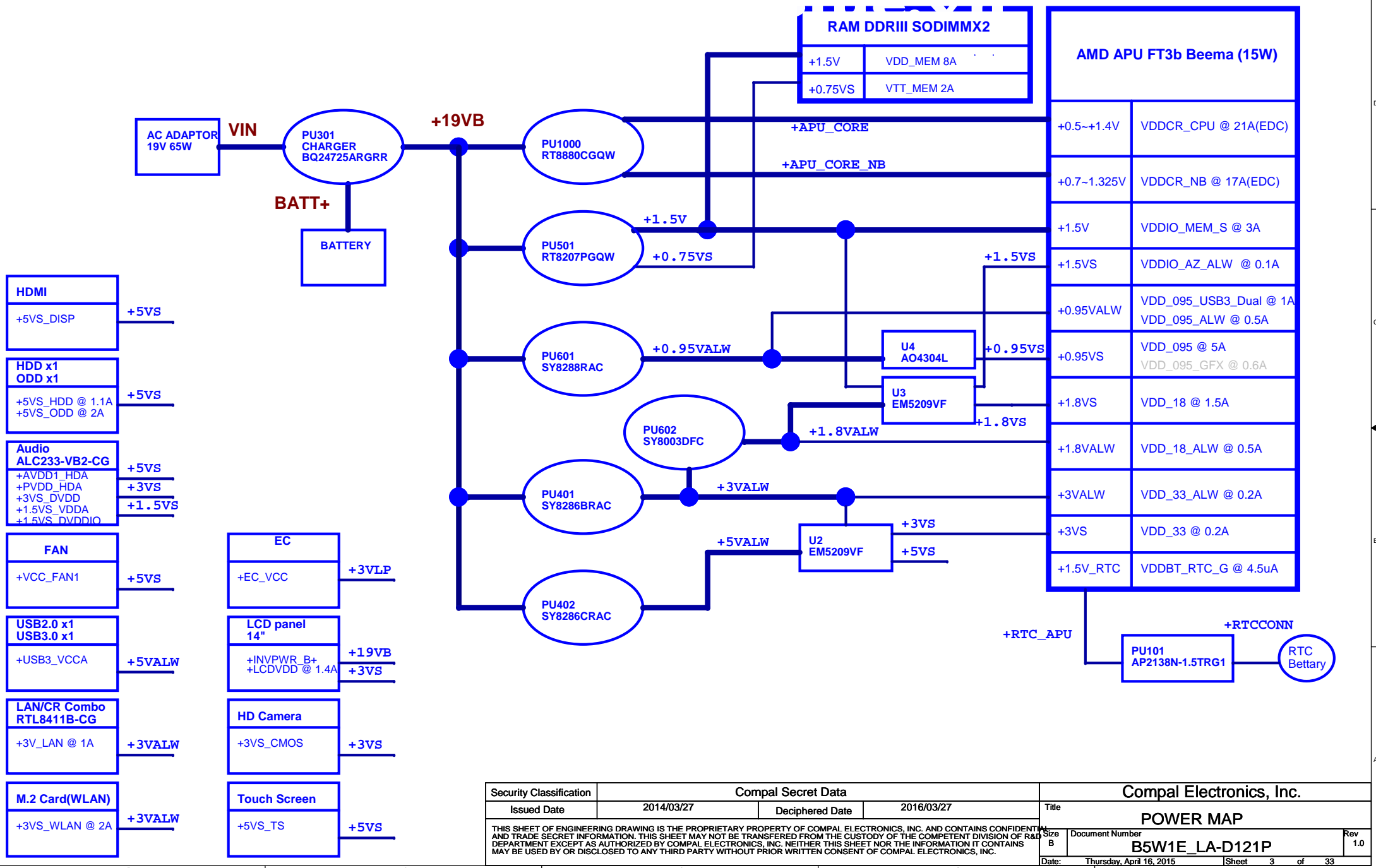
LA-D121P REV: 1.0
2015-04-16

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Issued Date	2014/03/27	Deciphered Date	2016/03/27	Title	COVER PAGE	
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Model Name : B5W1E
B5W1K
B5W1R





[illegible]

EC SMBus Port1 (+3VALW)			EC SMBus Port2 (+3VS)		
Device	Address	HEX	Device	Address	HEX
Smart Battery	0001 011X b	16H	SB-TSI (APU)	1001 100X b	98H

APU SMBus Port0 (+3VS)			APU SMBus Port1(+3VALW)		
Device	Address	HEX	Device	Address	HEX
DDR DIMM1	1010 000Xb	A0H			
DDR DIMM2	1010 001Xb	A2H			



BOM Structure	BTO Item
@	Unpop
CONN@	Connector part control by ME
KBN@	Stuff when use Kabini APU
BMA@	Stuff when use Beema APU
CZL@	Stuff when use CZ-L APU
233@	Use for Audio Codec ALC233-VB2
255@	Use for Audio Codec ALC255
283@	Use for Audio Codec ALC283
EMC@	EMI pop component
@EMC@	EMI unpop component
SP@	Short pad for clear CMOS
HDT@	HDT+ for test phase, MP remove
RS@	R-short
45@	HDMI royalty
9012@	Use KBC9012
9022@	Use KBC9022
BL@	Keyboard backlight
TPM@	Use discrete TPM module
ECI2C@	Use EC I2C T/P
TPUSB@	Use USB to I2C IC for T/P
BYOC@	Stuff when support BYOC
NBYOC@	Stuff when non-support BYOC
JP@	Jump
TP@	Test point

Board ID	PCB Revision
12	EVT
13	DVT
14*	PVT
15	Pre-MP
16	
17	
18	
19	

G-A ——— +RTC
EC_ON

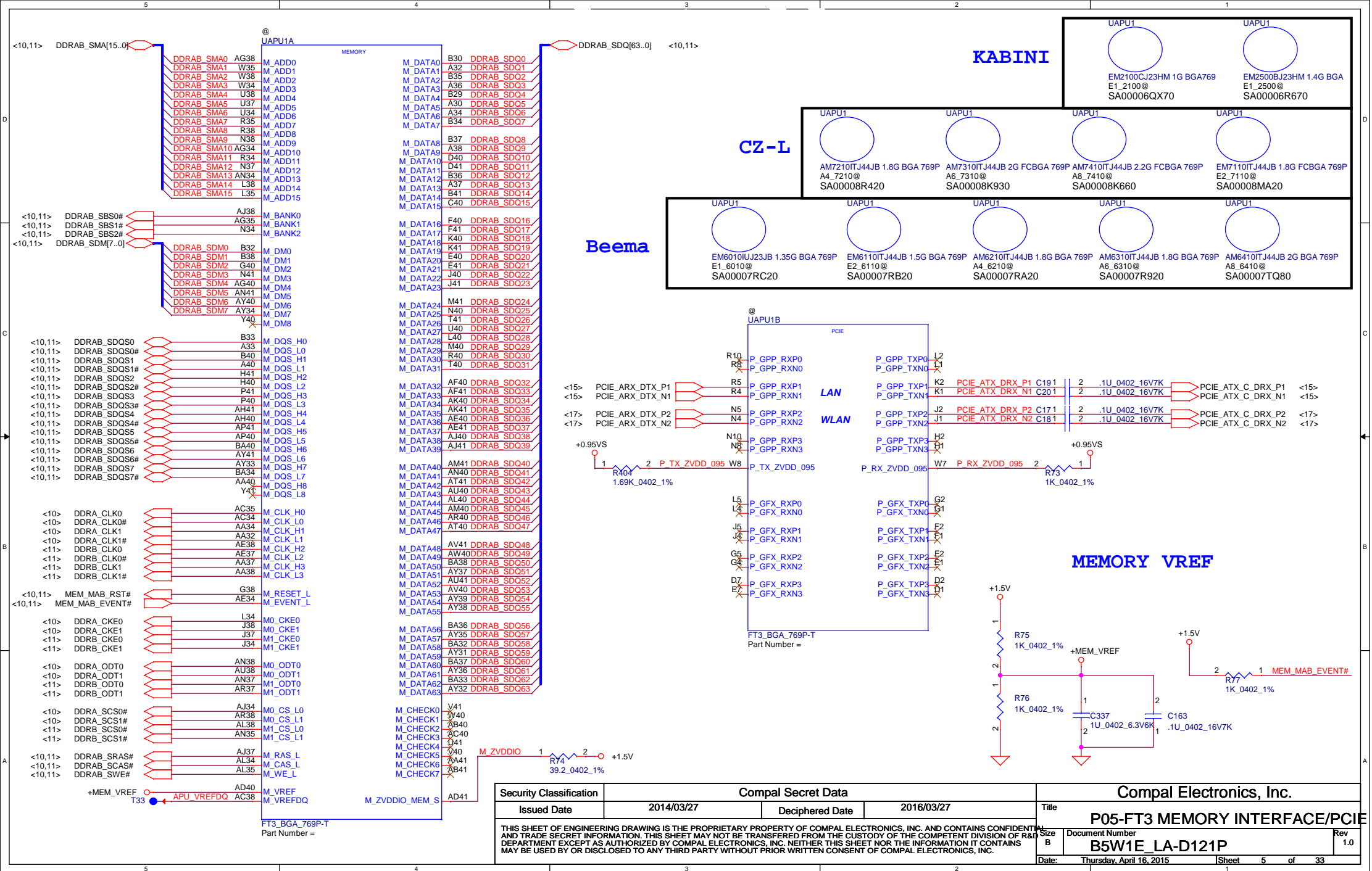
G-B ——— +3VALW/+5VALW
+1.8VALW
+0.95VALW
SYSON

G-C ——— +1.5V
SUSP#

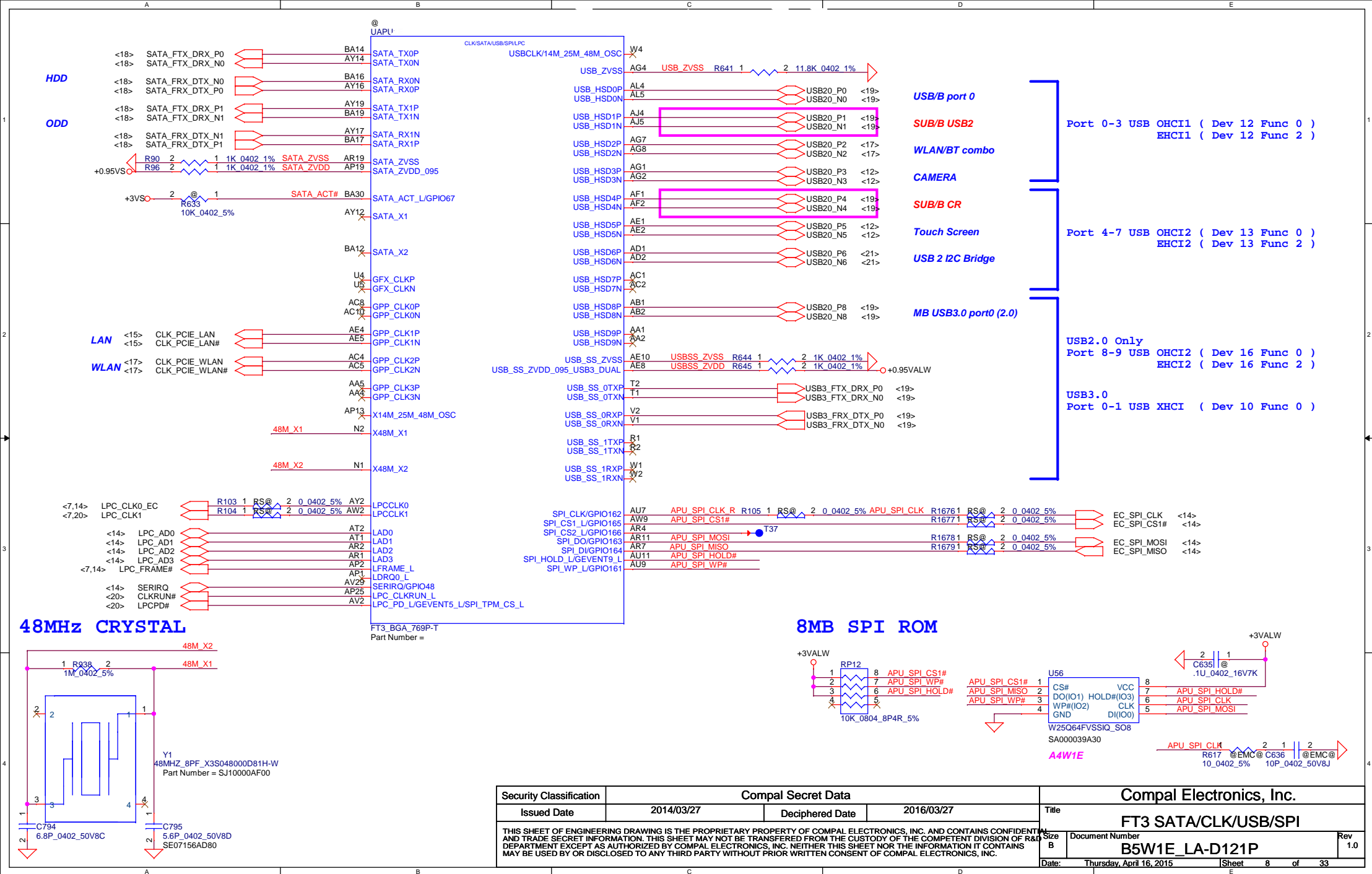
G-D ——— +3VS
+1.8VS
+1.5VS
+0.95VS
VR_ON

G-E ——— +APU_CORE
+APU_CORE_NB

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[illegible]

VDD 18 ALW

RTC OF APU

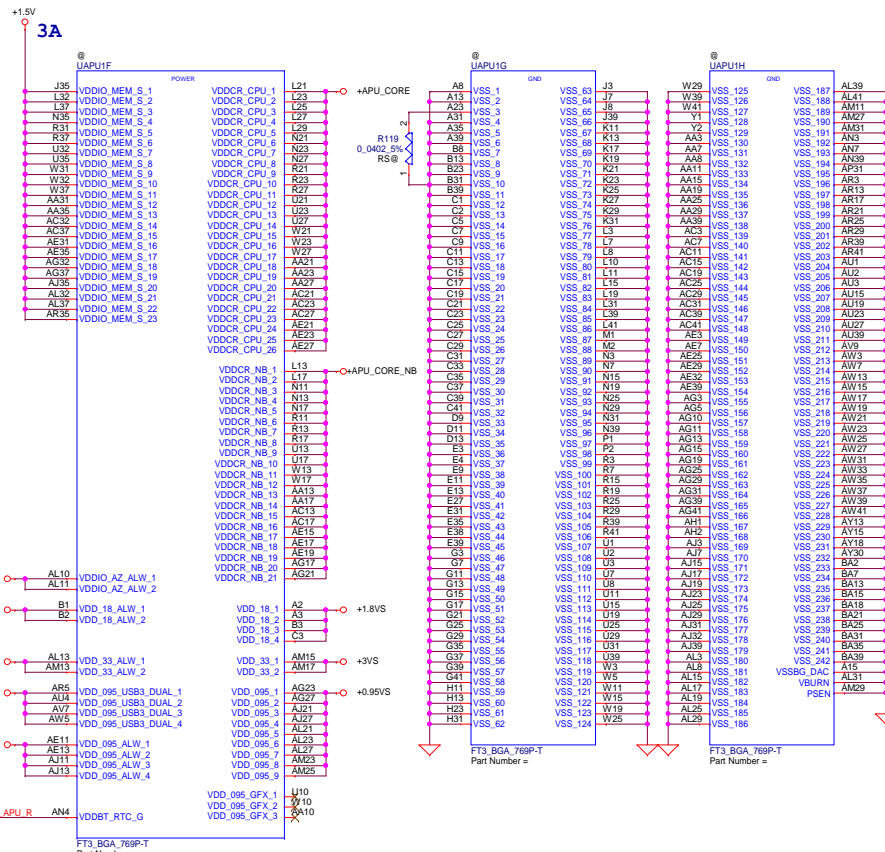
W=20m Ω R3 1 2 10K 0402 5%

C166 0.22uF 0402 10V6K

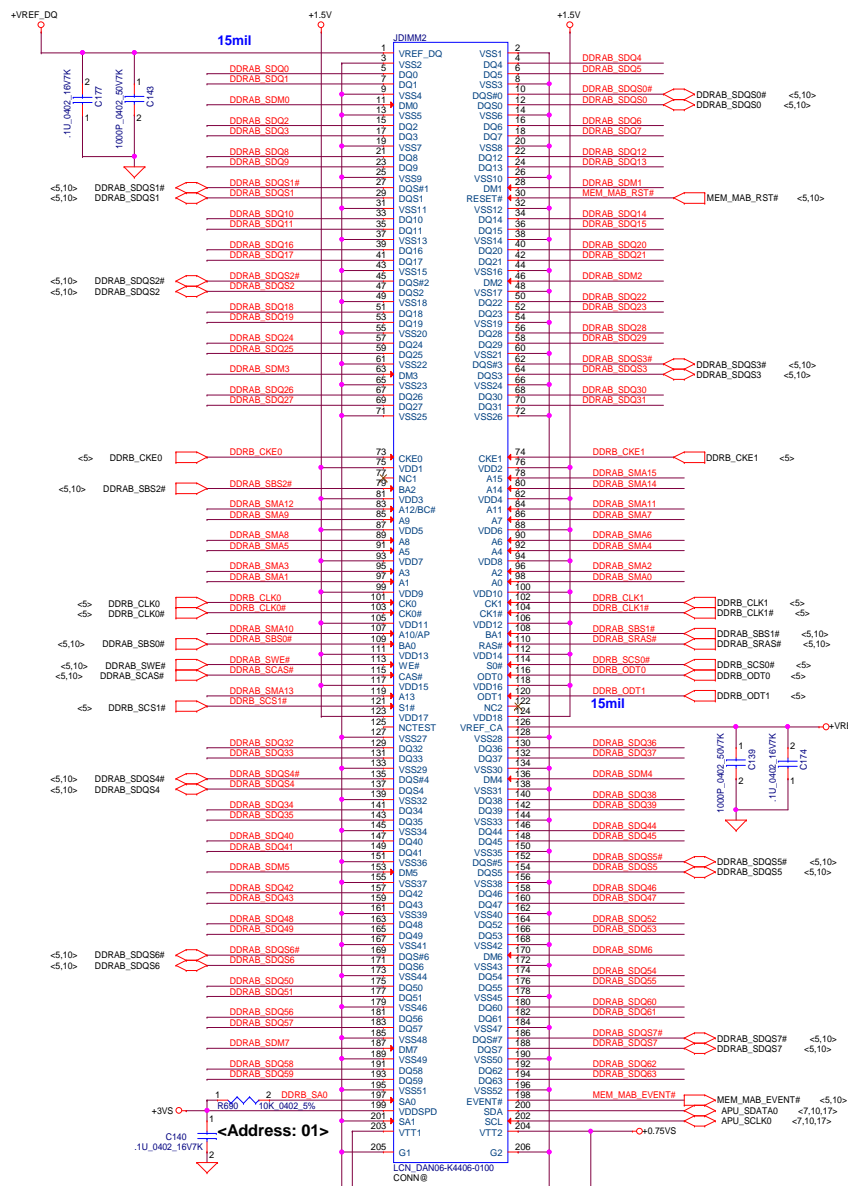
CLRP1 SP# Need OPEN for Clear CMOS

CLRP2 SP#

A4W1E



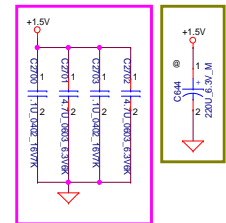
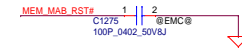
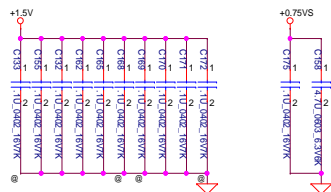
Compal Electronics, Inc.			
FT3 PWR/GND			
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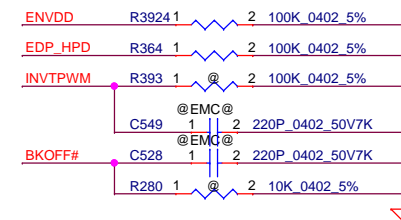
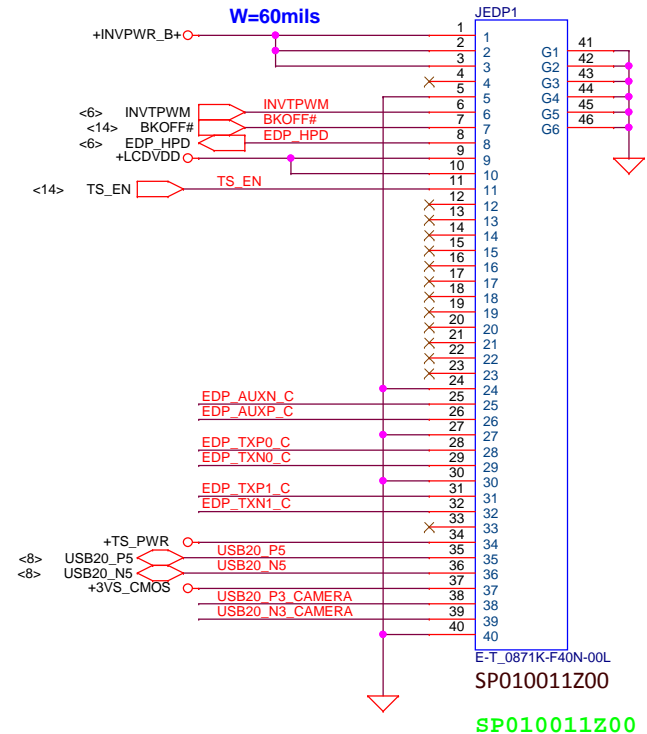
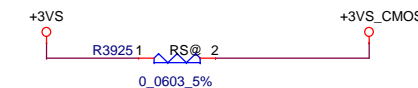
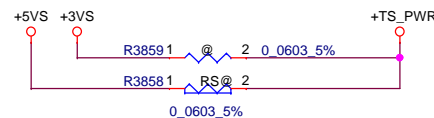
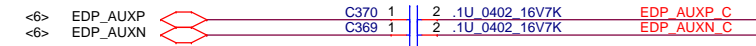
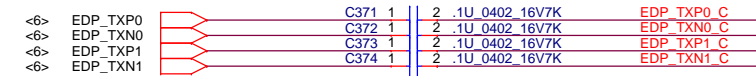
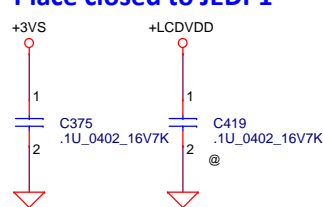
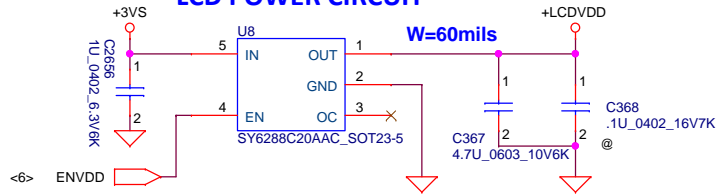
DIMM_B H:4mm STD

DDRAB_SDQ[0..63] DDRAB_SDQ[0..63] <5,10>
 DDRAB_SDM[0..7] DDRAB_SDM[0..7] <5,10>
 DDRAB_SMA[0..15] DDRAB_SMA[0..15] <5,10>

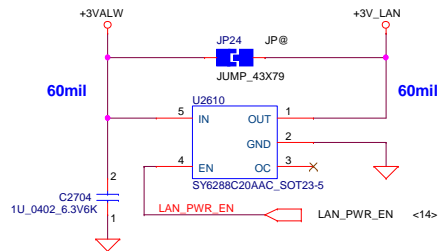
+1.5V/+0.75VS OF DIMM2



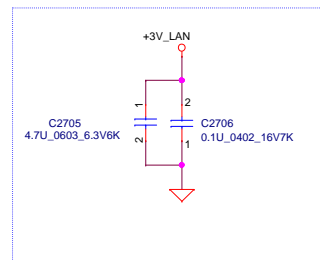
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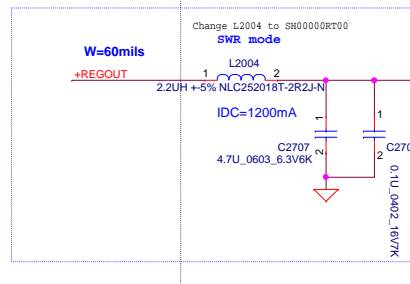
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Issued Date	2014/11/04	Deciphered Date	2016/11/04	Title eDP/Camera/Touch Screen		
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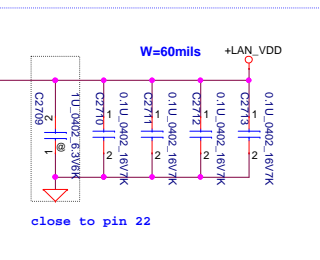
Close to U20 Pin23



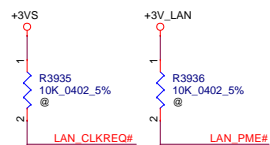
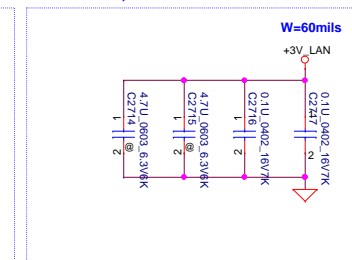
(Should be place within 200 mils)
Close to Pin 24



Close to Pin 3,8,22,30
1uF reserved for Pin 22

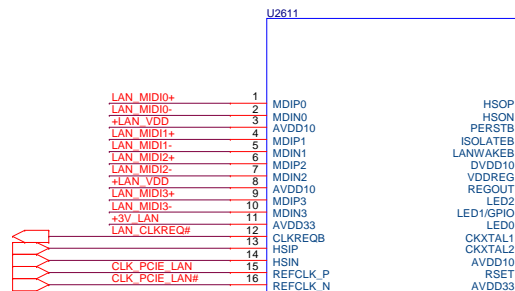


Close to Pin 11,32



PU to +3VS at PCH side

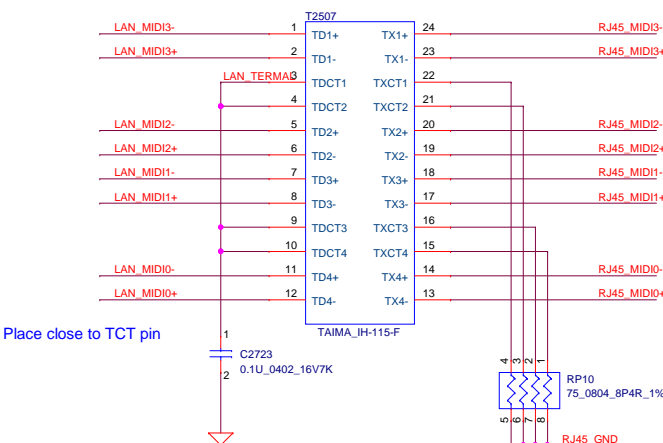
<7> LAN_CLKREQ#
<5> PCIE_ATX_C_DRX_P1
<5> PCIE_ATX_C_DRX_N1
<8> CLK_PCIE_LAN#
<8> CLK_PCIE_LAN#



RTL8111GS-CG_OFN32_4X4

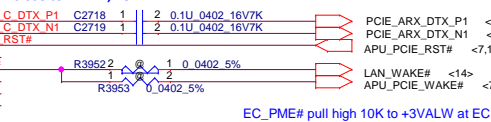
SA00006ML00

Use 8111GS symbol , pop 8111GUS part

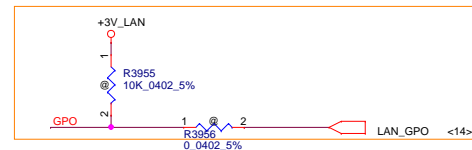


Place close to TCT pin

close to Pin 17, 18

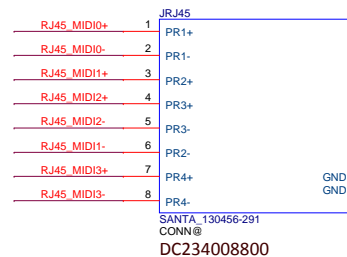


EC_PME# pull high 10K to +3VALW at EC



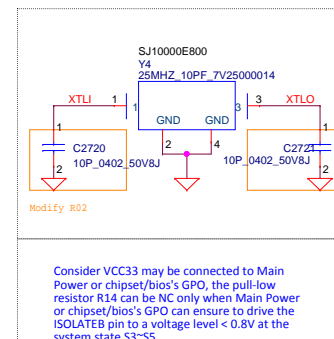
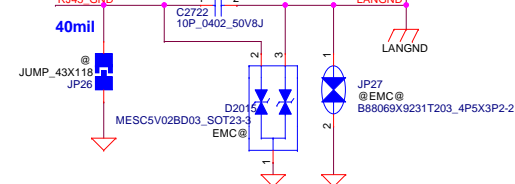
Modify R02

LAN Connector



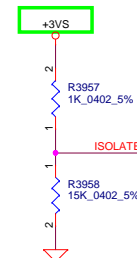
40mil

40mil



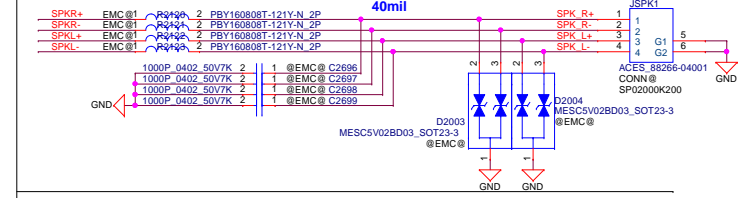
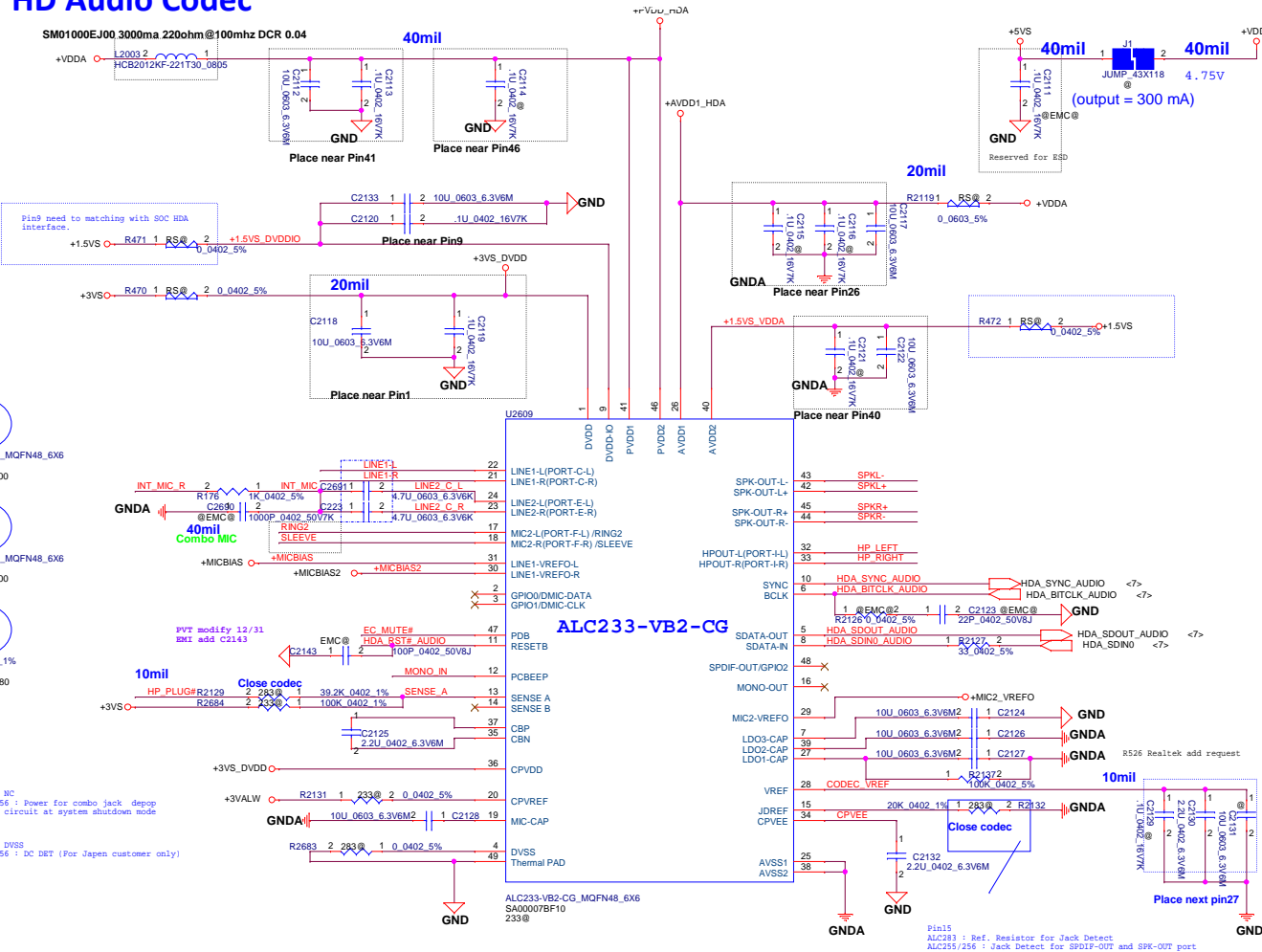
Modify R02

Consider VCC33 may be connected to Main Power or chipset/bios's GPO, the pull-low resistor R14 can be NC only when Main Power or chipset/bios's GPO can ensure to drive the ISOLATEB pin to a voltage level < 0.8V at the system state S3~S5.

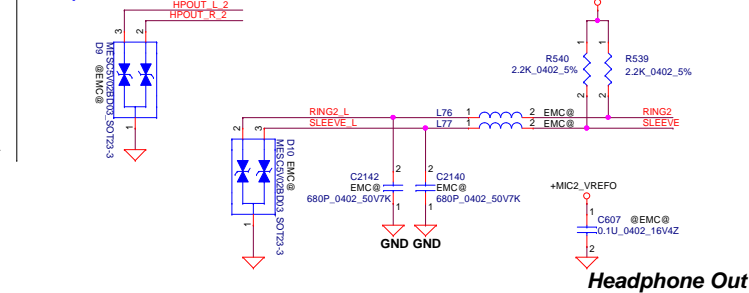
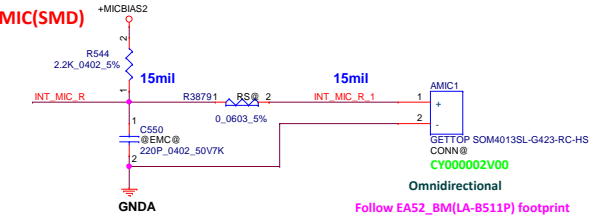


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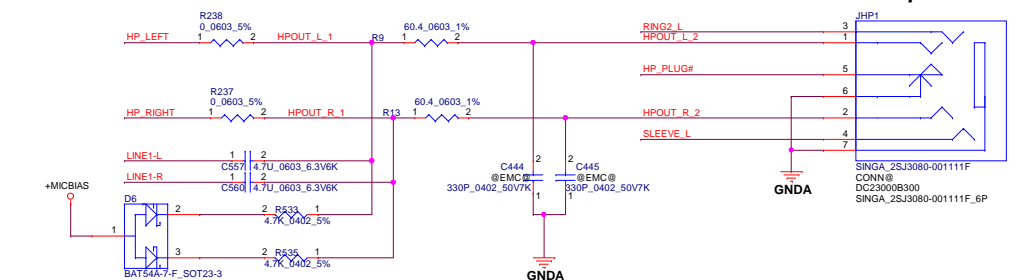
HD Audio Codec



Analog MIC(SMD)

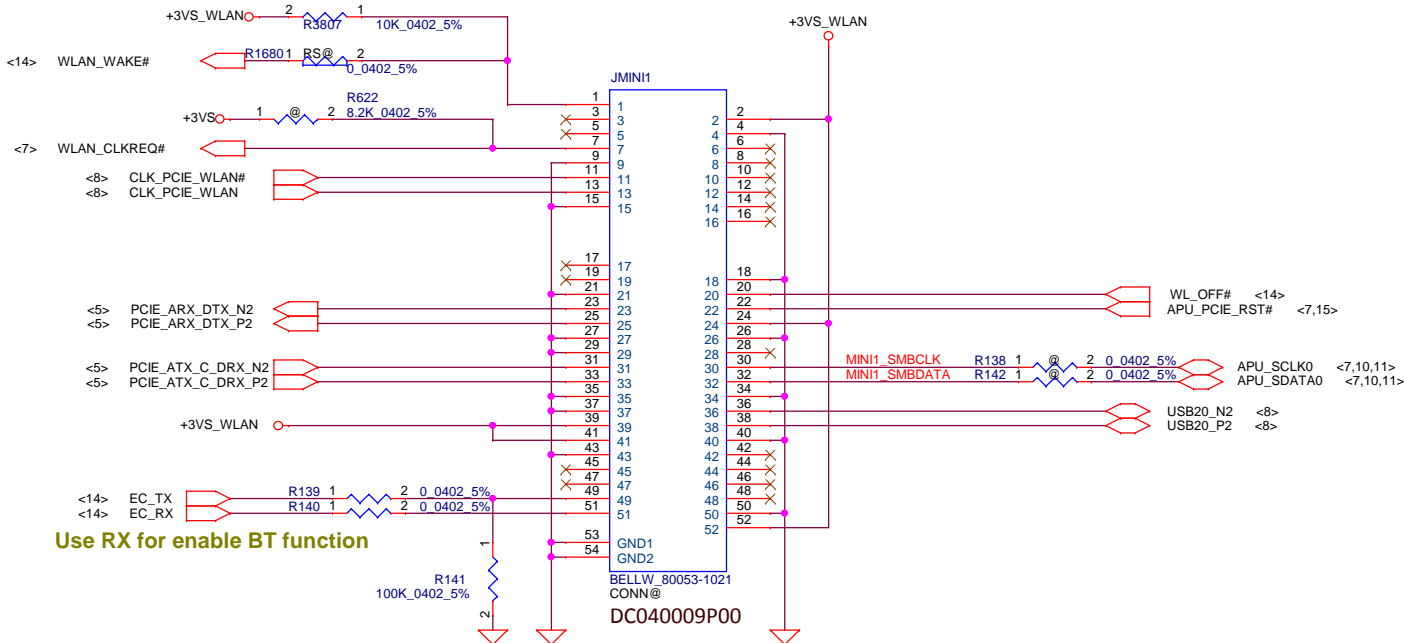
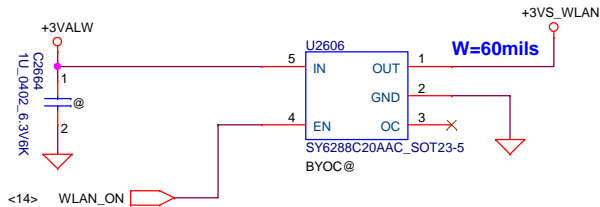
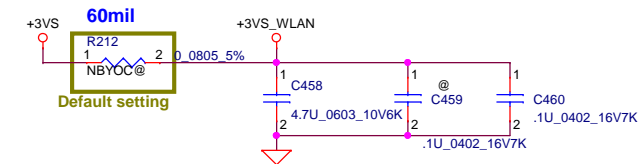


Headphone Out



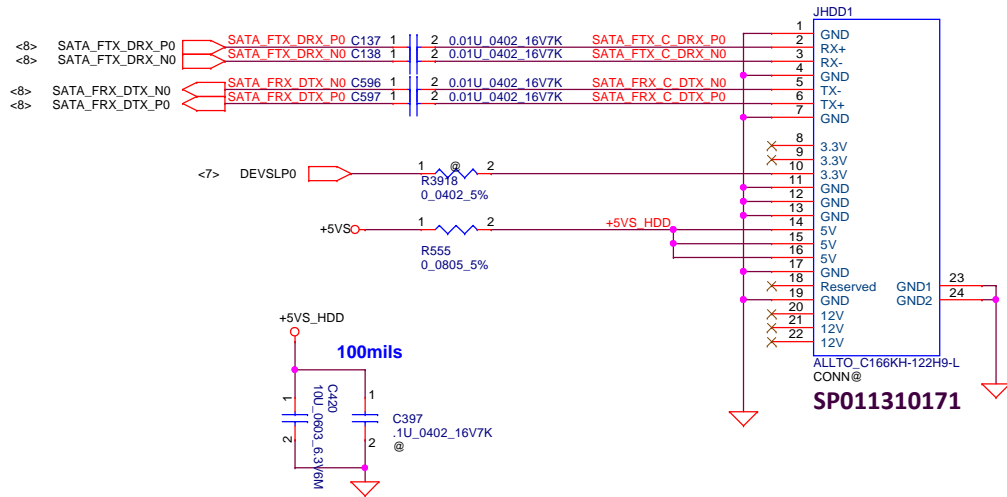
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Issued Date	2014/11/04	Deciphered Date	2016/11/04	Title HD Audio Codec ALC233-VB2			
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Wireless LAN

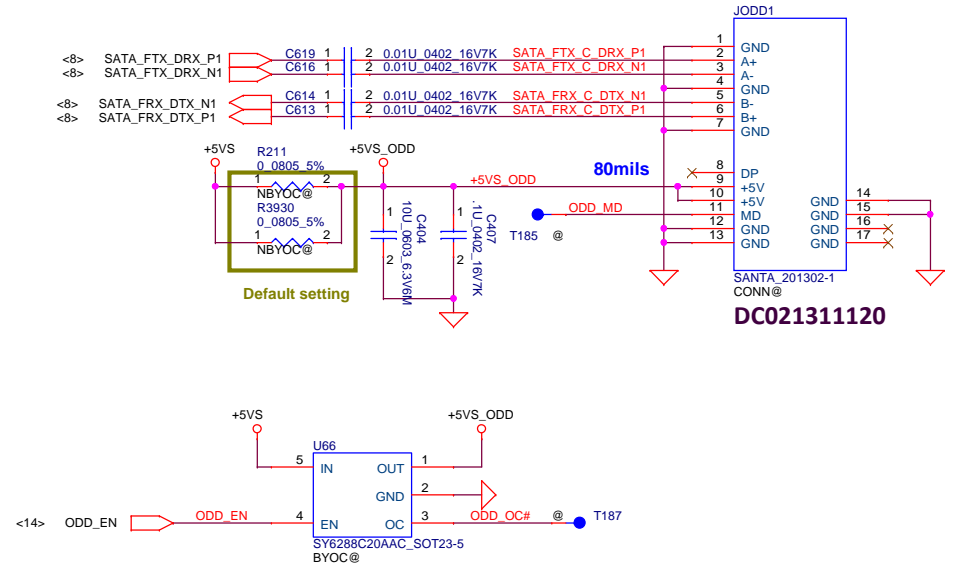


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SATA HDD Conn.

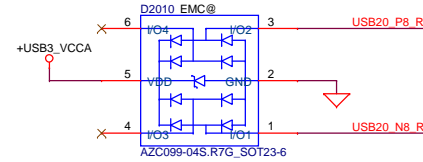
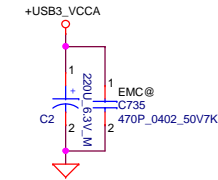
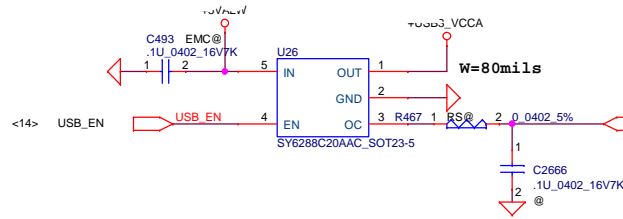
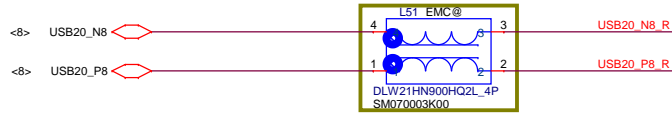


SATA ODD Conn.

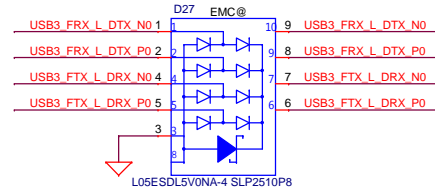


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				HDD/ODD					
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change L51 from SM070003Y00 to SM070003K00

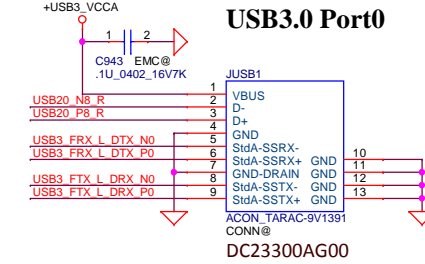


For ESD request

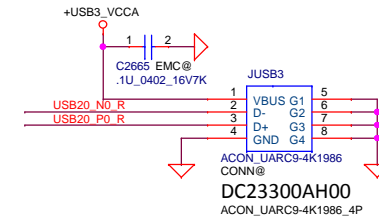


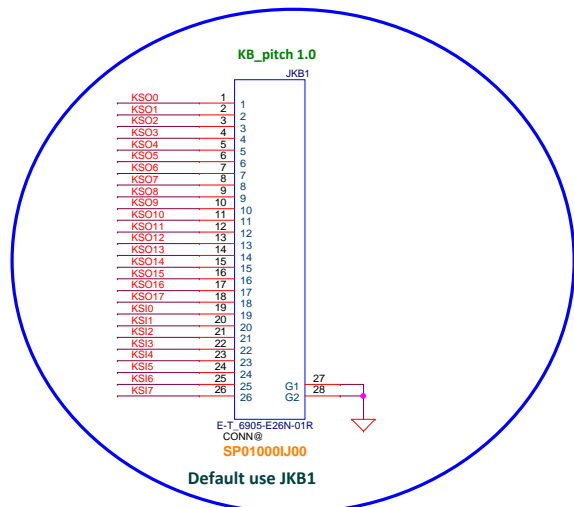
W=80mils

USB3.0 Port0

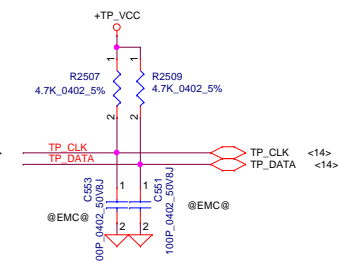
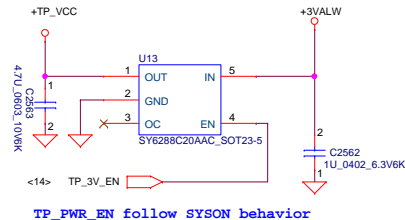
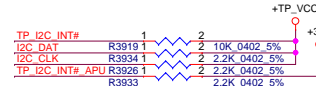
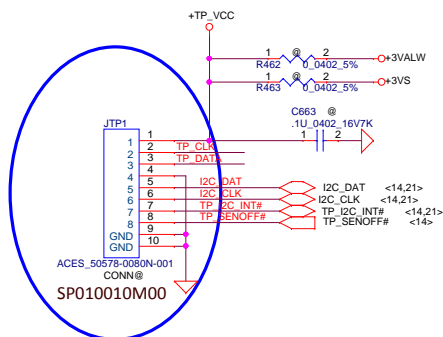


USB2.0 Port0

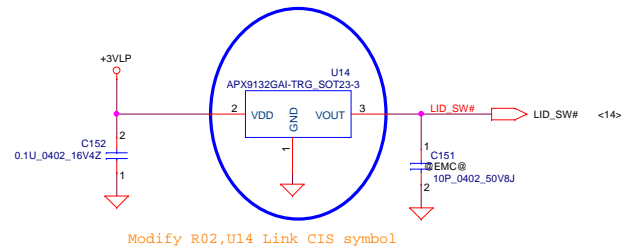




KSIO[0..7] <14>
KSIO[0..17] <14>



Lid Switch (Hall Effect Switch)



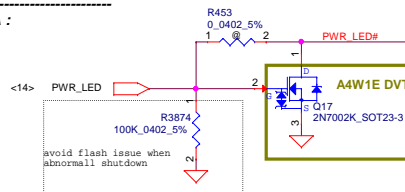
Modify R02,U14 Link CIS symbol

Dual Amber+Blue

LTST-S115TBKF-CA (SC50000C500)

Vf @ 5 mA :

LED

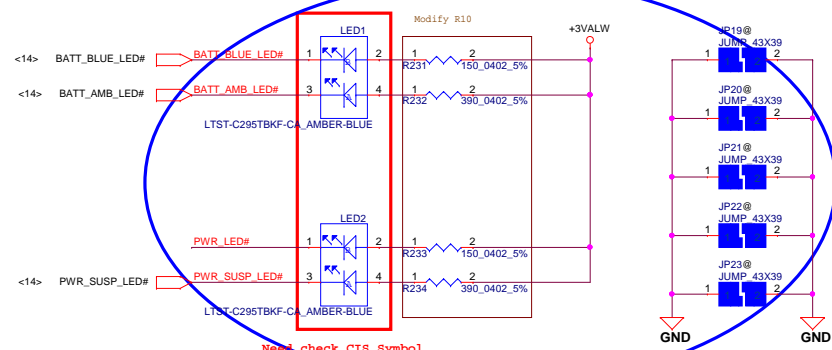


UD5: 1.7 ~ 2.3V
(3.3-1.7)/300=5.71 mA
(3.3-2.3)/300=3.57 mA
R min: 100 ohm
R max 700 ohm

CB5: 2.65~3.05V
(3.3-2.65)/50=13.00 mA
(3.3-3.05)/100=5.0 mA
R min: 50 ohm
R max:475 ohm

100 1% :SD034100080
150 1% :SD034150080
301 1% :SD034301080
680 1% :SD034680080

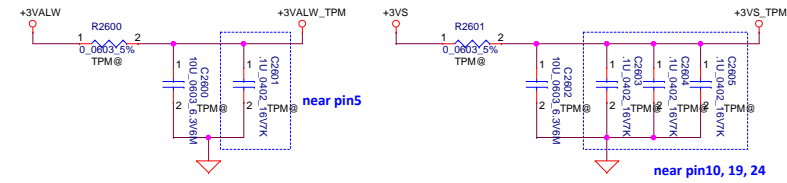
120 5% :SD028120080
560 5% :SD028560080
200 5% :SD028200080



Need check CIS Symbol

Security Classification				Compal Secret Data				Compal Electronics, Inc.			
Issued Date				2014/11/04				KB/TPM/TPM Connector/LED			
Deciphered Date				2016/11/04				B5W1E_LA-D121P			
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Date				Thursday, April 16, 2015				20 of 33			

TPM Board for 2015



BADD	SELECTION
0	EEh - EFh
* 1	7Eh - 7Fh

GPIO3/BADD with Internal PH (default)

CLKRUN reserve PH 10K to +3VS at APU side

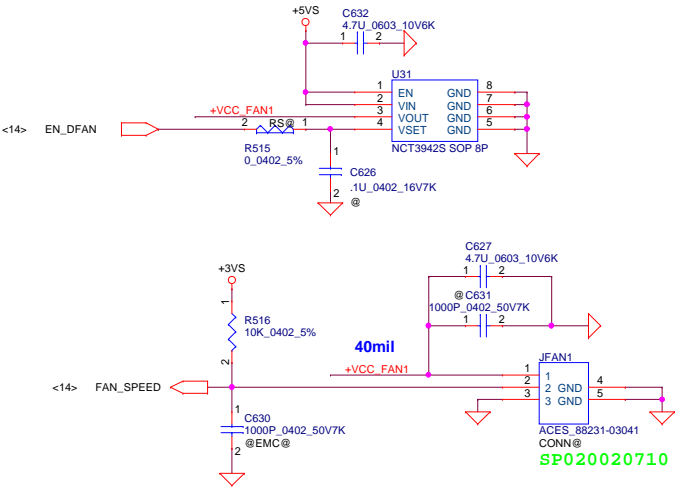
LPCPD# had internal PH

SERIRQ PH 10K to +3VS at PCH side

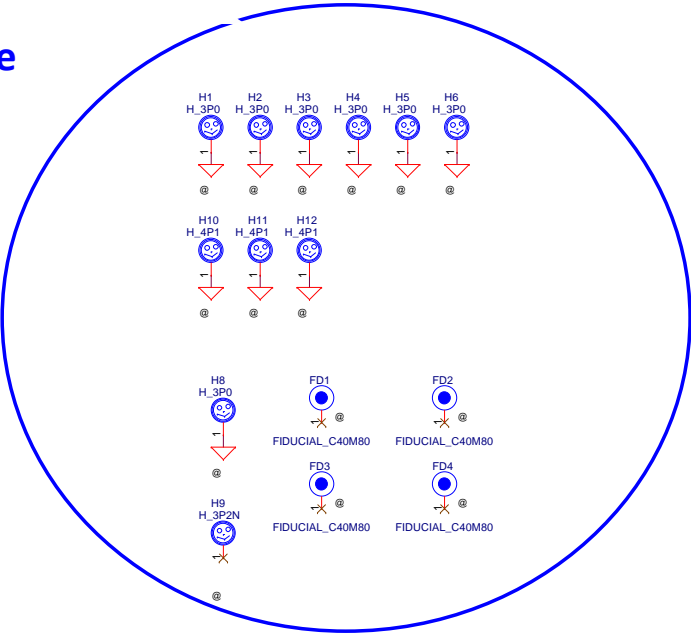


FAN1 Conn

FAN Conn

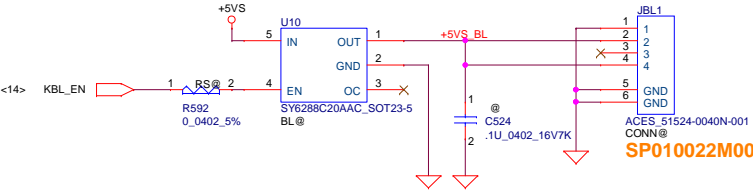


Screw Hole

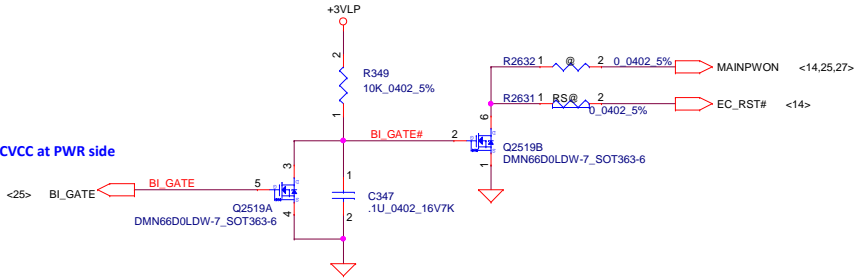


KB BackLight Conn. Reserve

Reset Circuit



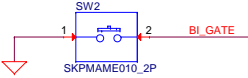
BI_GATE PH to +RTCVCC at PWR side



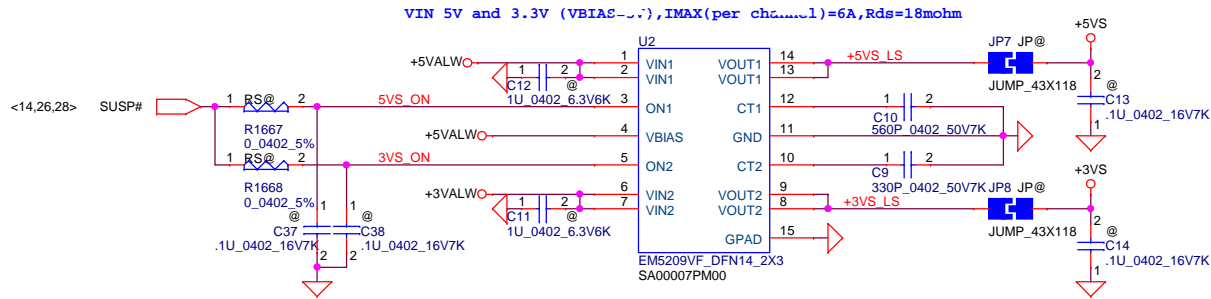
Del BI button

Reset Button

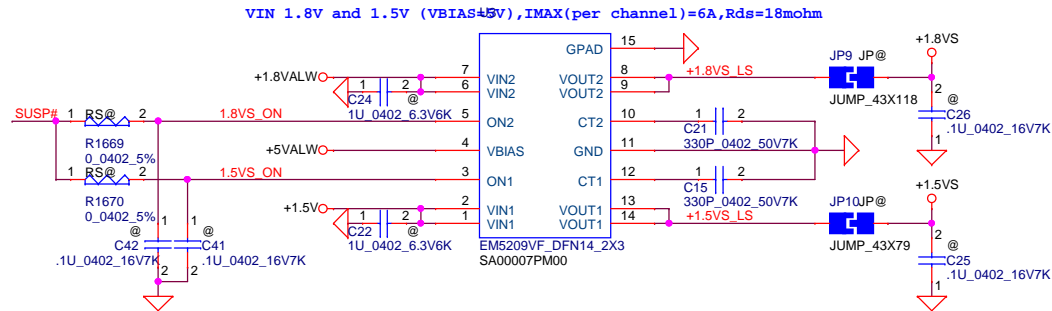
Reset Button



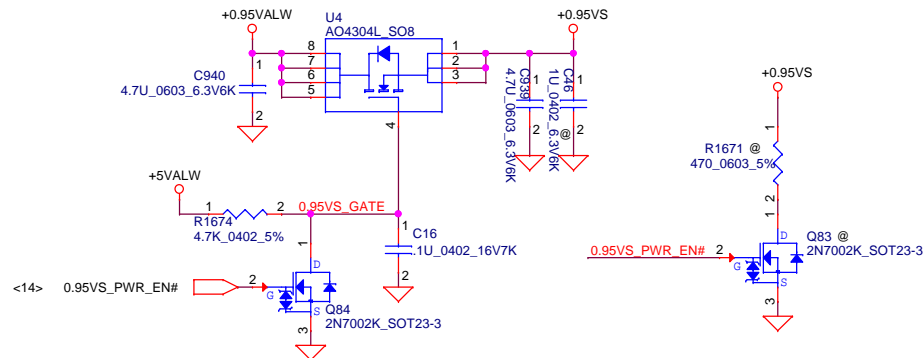
+5VALW TO +5VS
+3VALW TO +3VS
Load switch



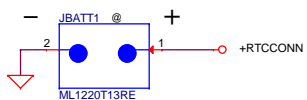
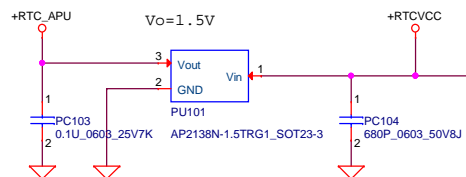
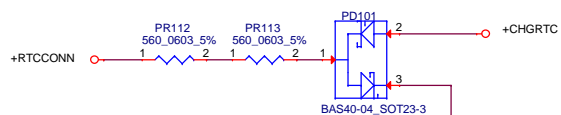
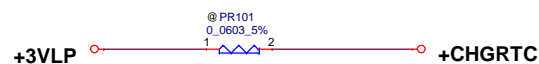
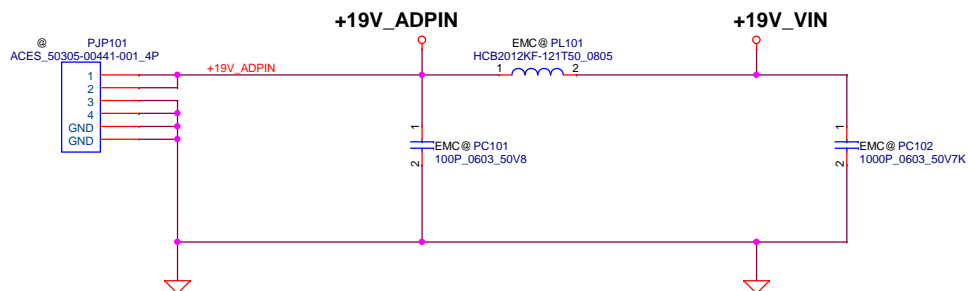
+1.8VALW TO +1.8VS
+1.5V TO +1.5VS
Load switch



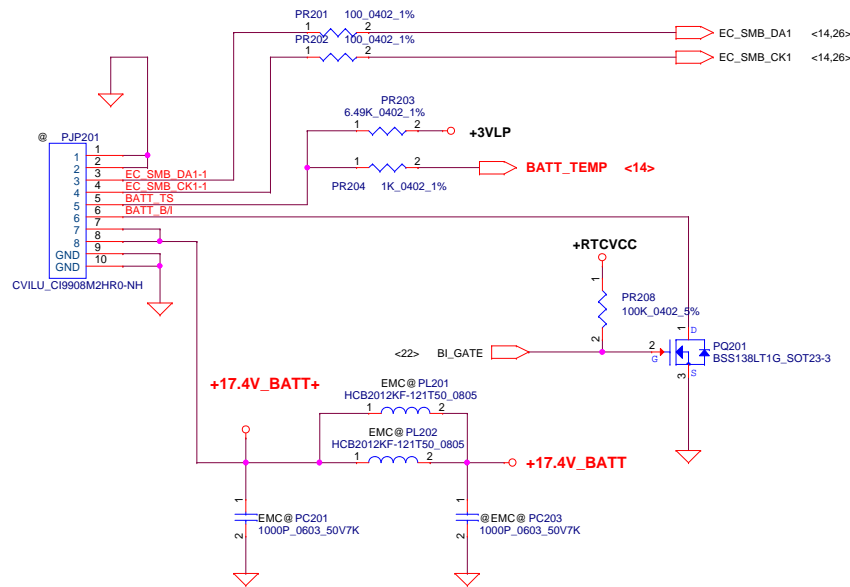
+0.95VALW to +0.95VS



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Issued Date	2014/03/27	Deciphered Date	2016/03/27	Title	P22-DC INTERFACE
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				Sheet	23 of 33



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				DCIN
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Date: Thursday, April 16, 2015				1.0
Sheet 24 of 33				



---Battery_pin define---

PIN1 GND
PIN2 GND
PIN3 SMD
PIN4 SMC
PIN5 TS
PIN6 B/I
PIN7 Batt+
PIN8 Batt+

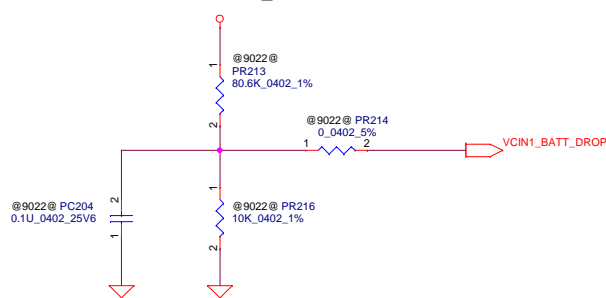
---Battery Con_pin define---

PIN8 GND
PIN7 GND
PIN6 SMD
PIN5 SMC
PIN4 TS
PIN3 B/I
PIN2 Batt+
PIN1 Batt+

2013/10/02
Add for ENE9022 Battery Voltage drop detection.
Connect to ENE9022 pin64 AD1.

Reserve for 2-cell design

+19VB_5V



For 45W adapter==>action 48.15W , Recovery 38.7W

48.15W:
 $I_{ada} = 0 \sim 2.253A$ ($48.15W/19V=2.534A$)
 $ADP_I = 20 * I_{ada} * R_{sense}$
 $ADP_I = 20 * 2.534 * 0.02 = 1.01$
38.7W:
 $I_{ada} = 0 \sim 2.036A$ ($38.7W/19V=2.036A$)
 $ADP_I = 20 * I_{ada} * R_{sense}$
 $ADP_I = 20 * 2.036 * 0.02 = 0.814$

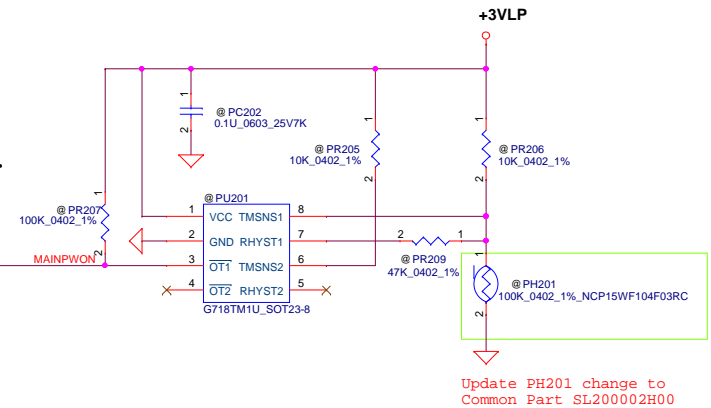
$CP = 45W * 0.85 = 38.25W$

For 65W adapter==>action 69.55W , Recovery 55.9W

69.55W:
 $I_{ada} = 0 \sim 3.661A$ ($69.55W/19V=3.661A$)
 $ADP_I = 20 * I_{ada} * R_{sense}$
 $ADP_I = 20 * 3.661 * 0.02 = 1.464$
55.9W:
 $I_{ada} = 0 \sim 2.942A$ ($55.9W/19V=2.942A$)
 $ADP_I = 20 * I_{ada} * R_{sense}$
 $ADP_I = 20 * 2.942 * 0.02 = 1.177$

$CP = 65W * 0.85 = 55.25W$

<45,47>
<14,22,27> MAINPWON

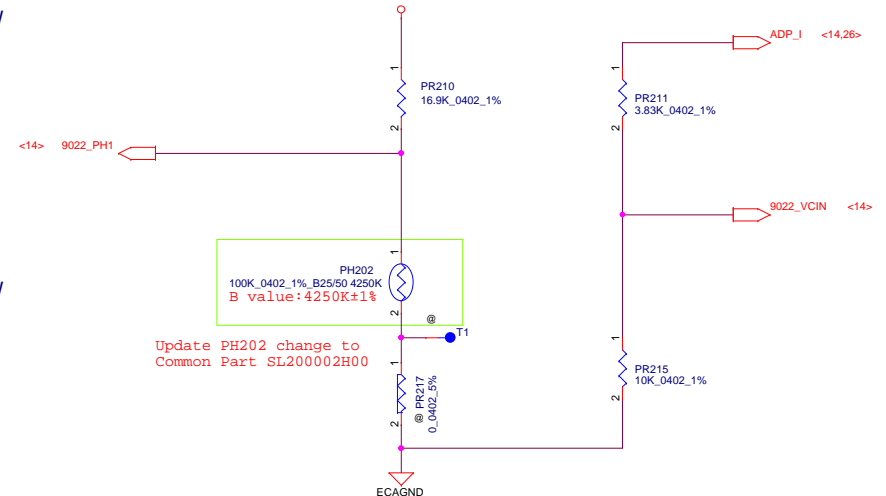


Update PH201 change to
Common Part SL200002H00

For KB9022 OTP	Active	Recovery
VCIN0_PH(V)	92C, 1V	56C, 2.V
PH202(ohm)	7.3K	26.11K

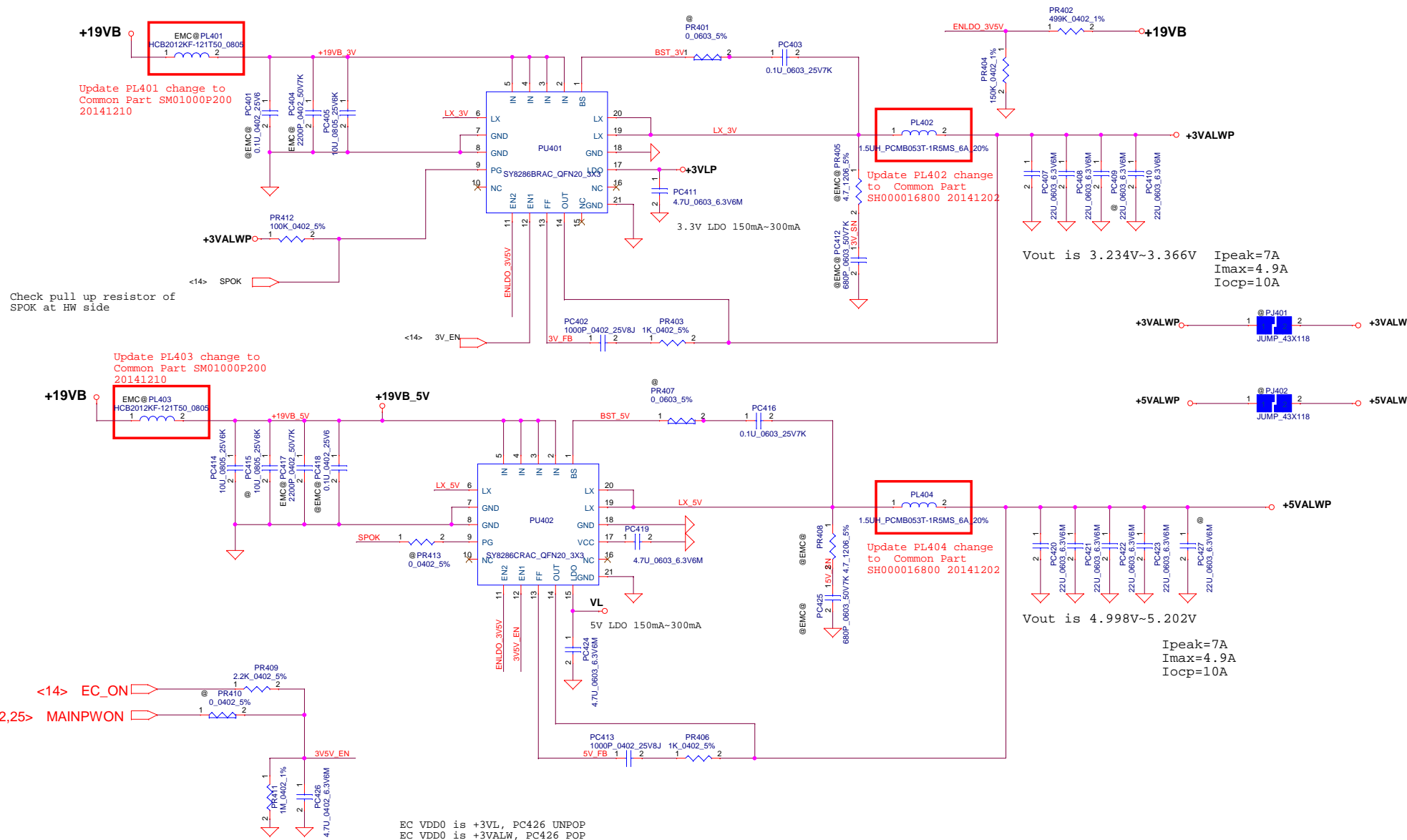
For KB9012 sense 20mΩ	Active	Recovery
45W	48.15W, 0.73V	38.7W, 0.59V
65W	69.55W, 0.73V	55.9W, 0.59V

PH202 under CPU bottom side :
CPU thermal protection at 92 degree C (shutdown)
Recovery at 56 degree C +EC_VCCA



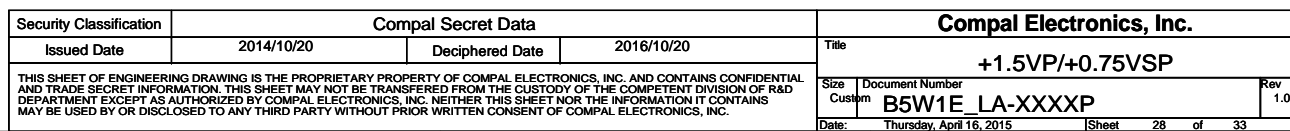
Update PH202 change to
Common Part SL200002H00

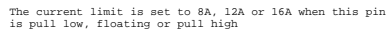
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Issued Date		2014/10/20		Deciphered Date		2016/10/20		Title				
								BATTERY CONN / OTP				
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								Custom	B5W1E_LA-XXXXP			1.0
								Date:	Thursday, April 16, 2015		Sheet	25 of 33



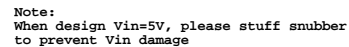
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RT8207M_V1.mdd	For Single layer
RT8207M_V2.mdd	For Dual layer



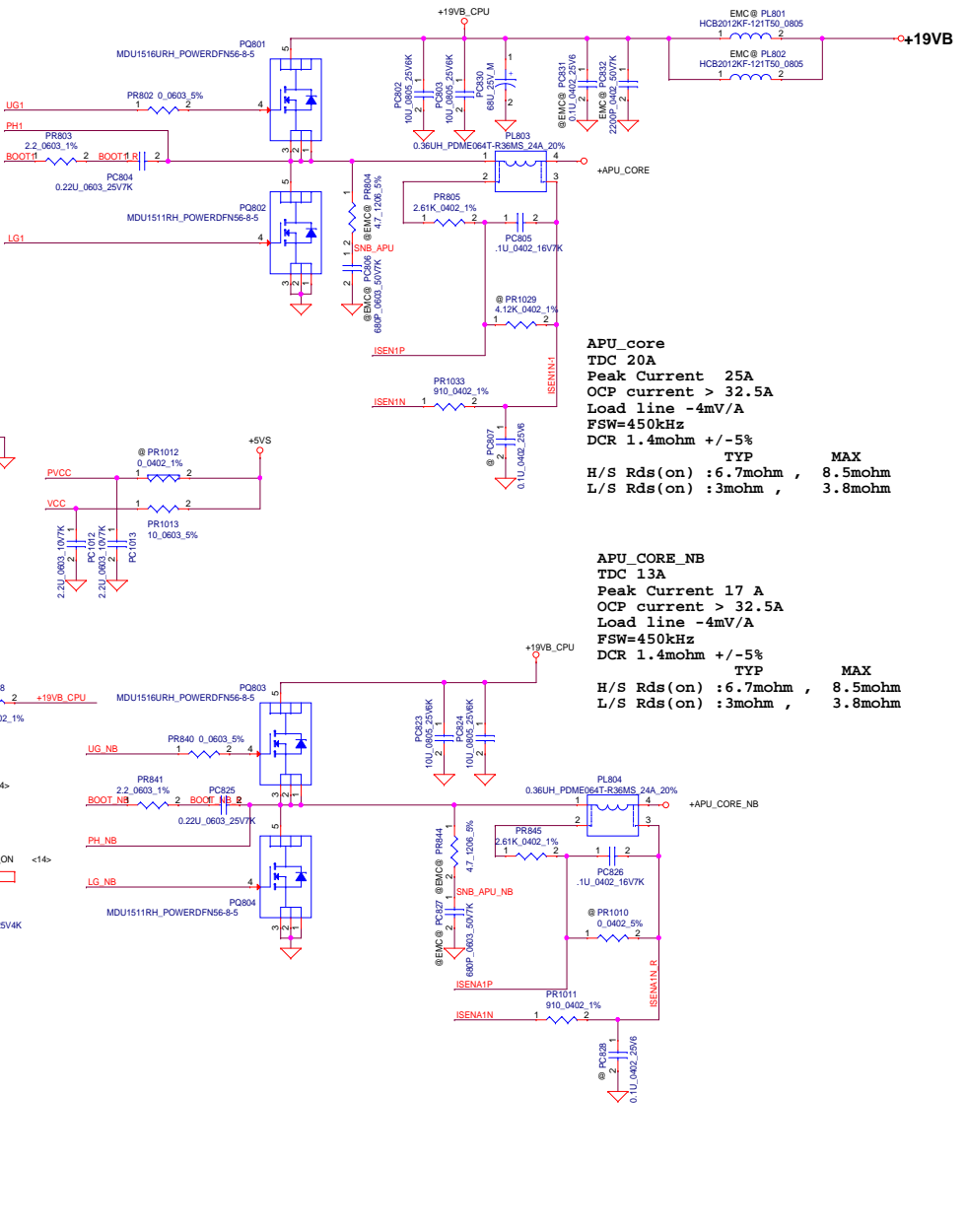
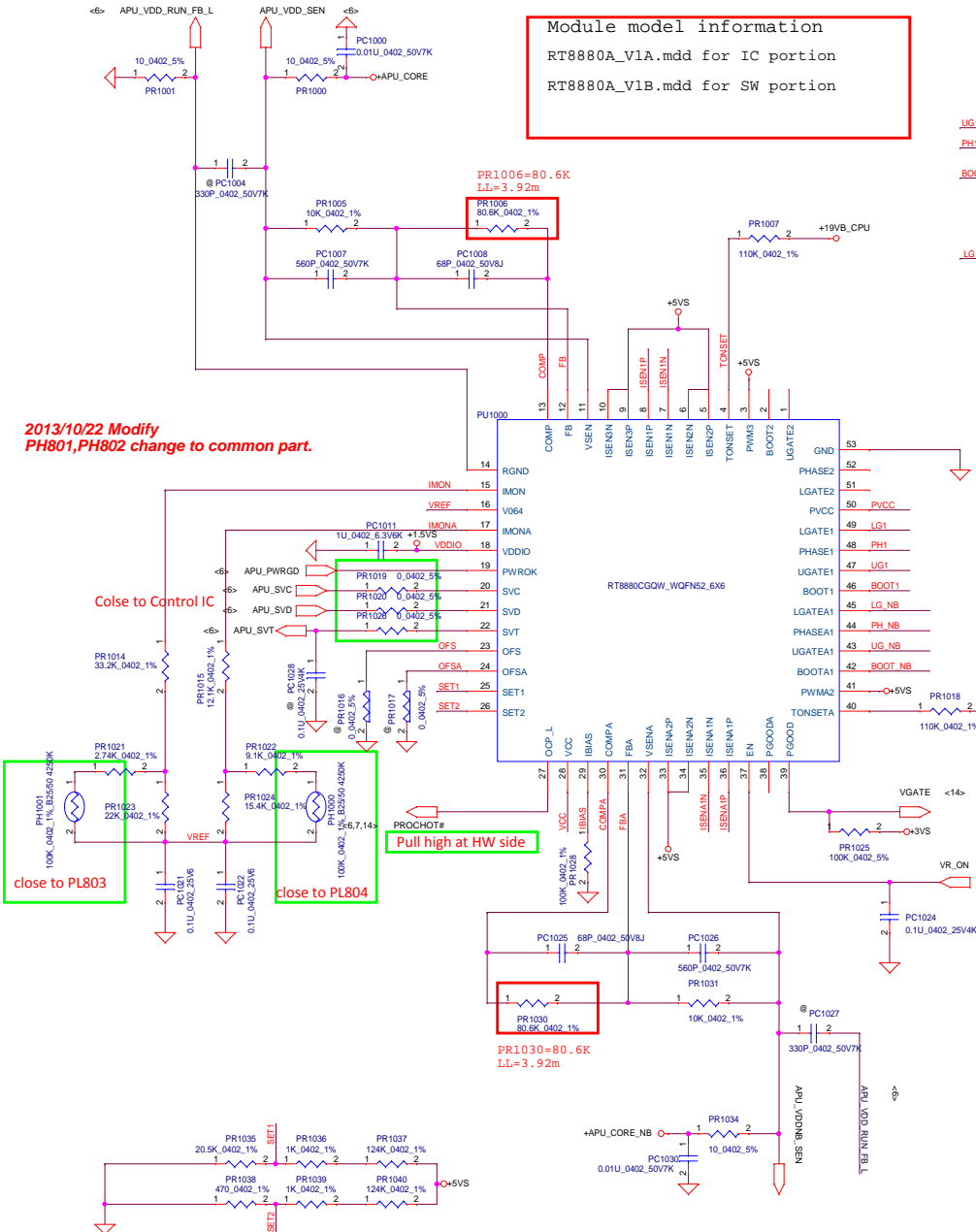


VDDP_ALW_VCTRL	VDDPALW
1	1.062V
0	0.96V



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			Date Drgnlyg: 14.10.20 Sheet 26 of 31	

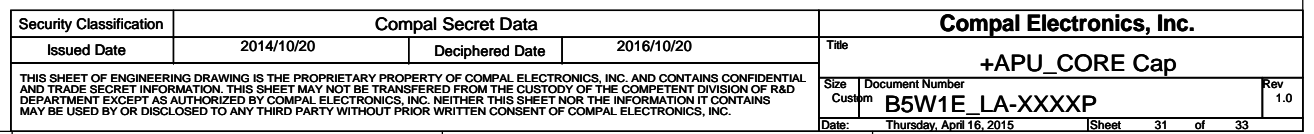
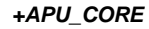
2013/10/16 Modify
PQ801,PQ803 change to AON6552.
PQ802,PQ804,PQ805 change to AON6554.



Delete PR834.PR835.PR836.PR839.PR840.PR841,
follow vender FAE suggest.
2013/11/29 modify.

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2012/06/19		2012/07/31		CPU_CORE	
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+APU_CORE



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for PWR

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Item	Page	Date	Reason for change	Phase
01		2015/02/05	modify form A4W1E, i/o copy from Z5W1M	DVT
02	11	2015/02/06	update to DIMM*2	
03	06		del JHDT1 circuit	
04	20	2015/02/09	for TP diff device	
05	18		del EXT HDD connector	
06	14	2015/02/11	define 15" EVT	
07			Change all EMI/ESD BS to EMC@	
08	15	2015/02/13	del JP25 (confirm with EMI Eddie)	
09	21	2015/02/24	schematic update	
10	07			
11	14			
12	15			
13	15			
14		2015/02/25	update power circuit.	
15	14		for common use Z5W1M I/O board	
16	17		schematic update	
17	23	2015/02/26	schematic update	
18	17			
19	08			
20	07			
21	07			
22	18	2015/03/03	schematic update	
23	14			
24	05			
25	13,19,21			
26	13	2015/03/04	schematic update	
27	15			
28	19			
29	5	2015/03/05	schematic update	
30	4	2015/03/06	schematic update	
31	23	2015/03/07	schematic update	
32	5	2015/03/10	schematic update	
33	15	2015/03/10		
34	12	2015/03/13	schematic update	
35	1,2	2015/03/18	schematic update	
36	13,15,19	2015/04/08	schematic update	
37		2015/04/09	update power circuit to 0409	
38		2015/04/09	Change 0 ohm to 0ohm R-S	
39		2015/04/10		

Security Classification

Issued Date

2014/03/27

Deciphered Date

2016/03/27

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HW-PIR